



Title: Ornithine Biosynthesis Enzymes
Applicant: R. E. Cahoon et al.
Application No.: 09/744,100

Replacement Sheet FIGURE 1A



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Replacement Sheet

*	+	*	+	*	*	+	*	*	*	*
SEQ ID NO: 11	VGLCGKDGQLMTARTMTN-KDVGFGVGEVSSVDARVVETLVKSGYIPVISSVAADEFQQAH									
SEQ ID NO: 02	IGLCGKDARLITARPSPNAALGFVGEVSRVDAVLHPIIAAGHIPVIATVAADETQAY									
SEQ ID NO: 04	VSLCWKEARLLNERPSPXEKGRLRFVGGWWRVDAVLHPIIASGHIPVIATVGADETQAY									
SEQ ID NO: 06	VGLSGMDGRLLITARPAPKAADLGVVGEVARVDPAVLRSLIDTSHIPVVTSAADESGQPY									
SEQ ID NO: 08	VGLCRKDGRILTERPSDAAALGFVGEVTRKNPSVLHPIIASSHIPVIATVAADETQAY									
SEQ ID NO: 12	XXLXXXXXRXXXXRPXXXXXXXXXXXXVGVXXXXVXXXXXHIPVXXXXVDEXGQXY									
181	181									
	240									

SEQ	ID NO: 11	NINADTCAGEI AA ALGAEKL II LTDT R G I LRDYKDPSTL I HKL D IQQARELIGSGIVAGG
SEQ	ID NO: 02	NINADTAAGEI AA AVGAEKL II LTDVSG G II A DRNDPGSLV K VUDIAGVRKMVA D GKVAGG
SEQ	ID NO: 04	NINADTAAGEI AA AVGAEKL II LTDVSG G II A DRNDPGSLV K KEIDIAVGVRQMVADGQVAGG
SEQ	ID NO: 06	NINADTVAGEI AA ASLGAEK II LTDVAGILEDRNDPDSL V K I DIKG V KMMEDGKVGGG
SEQ	ID NO: 08	NINADTAAGEI AA ASLGAEK II LTDVSG G II A DRDDPGSLV K KEIDIAVGRRMVAE G KVGGG
SEQ	ID NO: 12	NINADTXAGEAAXXGAEKL X L X TDVXG I LLXDRXDPXSL V K X XXDXGVRXMX X XGXV X GG

SEQ	ID NO: 11	MIPKVTCVRSIAQGVRAAHILDGRLPHALLEVFTDLGGSMIVASGYDL-----
SEQ	ID NO: 02	MIPKVECCVHALAQGVHTASIIDGRVPHSLLIELTDEGTGTMITG-----
SEQ	ID NO: 04	MIPKVECCVRAAQGVHTASIIDGRVPHSLLIELTDEGTGTMITG-----
SEQ	ID NO: 06	MIPKVNCCVRSIAQGVITASIIDGRVPHSLLIELTDEGAGTMITG-----
SEQ	ID NO: 08	MIPKVGCCVRAAQGVHTASIIDGRVPHSLLIELTDEGTGTMITG-----
SEQ	ID NO: 12	MIPKVXCCVXXLAQGVXTASIIDGRVPHSLLIELTDEGXGTMITG-----



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FIGURE 1A
Annotated Sheet Showing Changes

FIGURE 1A



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Annotated Sheet Showing Changes
FIGURE 1B

SEQ	ID NO: 11	*	+	*	+	+	*	*	+	*	+	+	*	*	*	*	*	*	*	*	*	*
SEQ	ID NO: 02	VGLCGKDGQLMTARTMTN-KDVGFGVEVSSVNDARVVTLVKSGYIPVISSVAADEFGQAH																				
SEQ	ID NO: 04	IGLCGGKDARLITARPSPNAALGFVGEVSRVDATVLHPIIAAGHHPVIATVAADETIGQAY																				
SEQ	ID NO: 06	VSLCWWKEARLLNEERPSXPXEKGRLFVGGWWRVDAVLHPIIASGHHPVIATVGADETGQAY																				
SEQ	ID NO: 08	VGLSGMDGRLLTARPAPKAADLGIVGEVARVDPAVLRLSLIDTSHIPVVTVAADESGQPY																				
SEQ	ID NO: 12	VGLCRKDGRILITERPSPDAAALGFVGEVTRKNPSPVLIPIIASSHIPVIATVAADETIGQAY																				
		XXLXXXXXRX XXXRPXPXXXXXXXVGXXRXXXXXVXXXXXH IPVXXXXVADEXGQXY																				

240

181 *X changed for X*

SEQ	ID NO: 11	*** * * * * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *	*** * *
SEQ	ID NO: 02	NINADTCAGELAAALGAEKLILLTDTRGILRDYKDPSTLILHKLDIQQQARELIGSGIVAGG																			
SEQ	ID NO: 04	NINADTAAGEIAAAVGAEKLILLTDVSGILADRNDPGSLLVKVVDIAGVRKMVADEGVAGG																			
SEQ	ID NO: 06	NINADTAAGEIAAAVGAEKLILLTDVSGILADRNDPGSLLVKEI DIAGVRQMVADEGQVAGG																			
SEQ	ID NO: 08	NINADTVAGELAASLGAEKLILLTDVAGILEDRNDPDSLVLKKIDIKGVKMMEDGKVGGG																			
SEQ	ID NO: 12	NINADTAAGEIAAAGAEKLILLTDVSGILADRDDPGSLLVKEDIAGVRRMVAEGKVGGG																			

300

241

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SEQ	ID NO: 11	MIPKVTCCVRSILAQGVRAAHILDGRGLPHALLLEVFTDLGIGSMIVASGYDL
SEQ	ID NO: 02	MIPKVECCVHALAQGVHTASIIDGRVPHSLLLEILTDEGTGTMITG-----
SEQ	ID NO: 04	MIPKVECCVRAILAQGVHTASIIDGRVPHSLLLEILTDEGTGTMITG-----
SEQ	ID NO: 06	MIPKVNCCVRSILAQGVHTASIIDGRVPHSLLLEILTDEGATGMITG-----
SEQ	ID NO: 08	MIPKVGCCVRAILAQGVHTASIIDGRVPHSLLLEILTDEGTGTMITG-----
SEQ	ID NO: 12	MIPKVXCCVXXILAQGVXTASILDGRVPHSLLLEILTDEGXGTMITG-----

351

301